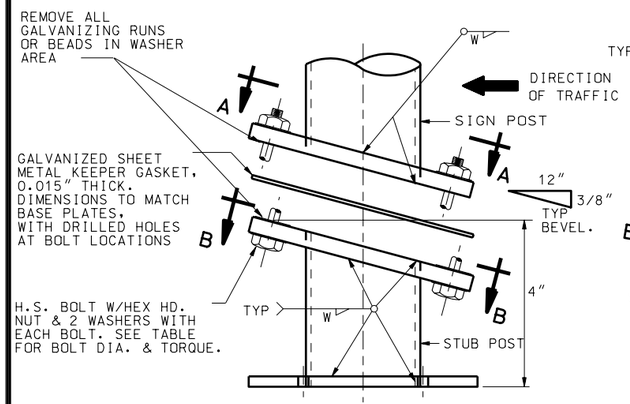
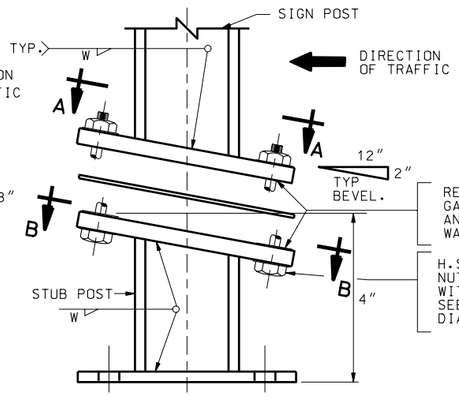
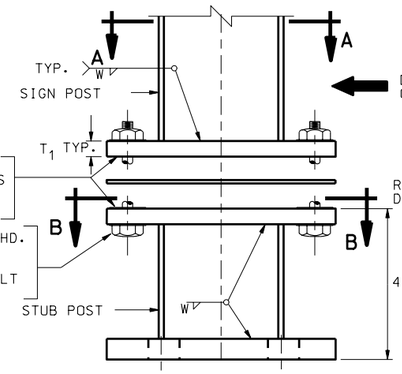


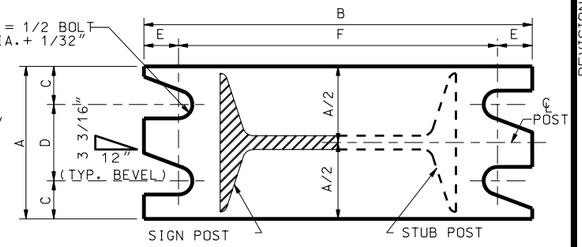
SIGN POST & STUB POST ELEVATION
(FOR PIPE COLUMNS)



SIGN POST & STUB POST ELEVATION
(FOR S3 & S4 SECTIONS)



SIGN POST & STUB POST ELEVATION
(FOR S6, S8 & W10 SECTIONS)



SECTION A–A SECTION B–B
(SEE TABLE FOR DIMENSIONS)

SECTIONS SHOWN ARE FOR INSTALLATIONS ON RIGHT SHOULDER AND IN GORE. PLATE SLOT BEVELS ARE OPPOSITE HAND FROM THAT SHOWN FOR INSTALLATION ON LEFT SHOULDER "S" POST IS SHOWN. PIPE POST SELECTIONS ARE SIMILAR.

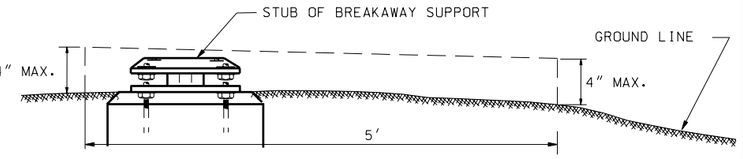
BASE CONNECTION DATA TABLE

POST SIZE	BOLT SIZE & TORQUE	A	B	C	D	E	F	T_1	W
S3 X 5.7	1/2" DIA.X 2 1/2" 10 FT.-LB. TORQUE	3"	7 1/2"	3/4"	1 1/2"	3/4"	6"	5/8"	3/16"
S4 X 9.5		3 1/2"	7 1/2"	3/4"	2"	3/4"	6"	5/8"	1/4"
S6 X 12.5	5/8" DIA. X 3" 24 FT.-LB. TORQUE	4 1/2"	10"	1 1/8"	2 1/4"	3/4"	8 1/2"	3/4"	5/16"
S6 X 17.5		4 1/2"	10"	1 1/8"	2 1/4"	3/4"	8 1/2"	3/4"	5/16"
S8 X 18.4		5"	12"	1 1/8"	2 3/4"	3/4"	10 1/2"	3/4"	5/16"
W10 X 19.0	3/4" DIA.X 3 1/2" 38 FT.-LB. TORQUE	6"	1'-2 1/2"	1 1/4"	3 1/2"	7/8"	1'-0 3/4"	1"	5/16"
W10 X 22.0		7"	1'-3"	1 1/2"	4"	7/8"	1'-1 1/4"	1"	5/16"
W10 X 26.0		7"	1'-3"	1 1/2"	4"	7/8"	1'-1 1/4"	1"	5/16"
W10 X 30.0	1" DIA.X 3 1/2" 51 FT.-LB. TORQUE	7"	1'-3"	1 1/2"	4"	7/8"	1' 1 1/4"	1 1/8"	5/16"
3" DIA. STD. PIPE	1/2" DIA.X 2 1/2" 10 FT.-LB. TORQUE	4 1/2"	7 1/2"	1"	2 1/2"	3/4"	6"	3/4"	1/4"
4" DIA. STD. PIPE		5 1/2"	8 1/2"	1"	3 1/2"	3/4"	7"	3/4"	1/4"
5" DIA. STD. PIPE	5/8" DIA.X 3 1/2" 24 FT.-LB. TORQUE	6 1/2"	10 1/4"	1 1/4"	4"	7/8"	8 1/2"	1"	1/4"
6" DIA. STD. PIPE		7 1/2"	11 1/2"	1 1/4"	5"	7/8"	9 3/4"	1"	5/16"
8" DIA. STD. PIPE		9 1/2"	1'-2"	1 1/4"	7"	7/8"	1'-0 1/4"	1"	5/16"

FUSE PLATE DATA TABLE

F	G	H	J	K	L	N	T_2	D_1	BOLT DIA.
3 7/16"	2 1/4"	1 1/8"	2 3/8"	1 1/2"	7/16"	1/2"	1/4"	9/16"	1/2"
3 7/16"	2 1/4"	1 1/8"	2 3/4"	1 1/2"	5/8"	1/2"	5/16"	9/16"	1/2"
4 3/8"	2 1/2"	1 1/4"	3 3/8"	2"	11/16"	5/8"	3/8"	9/16"	1/2"
4 3/8"	2 1/2"	1 1/4"	3 5/8"	2"	13/16"	5/8"	3/8"	11/16"	5/8"
4 3/8"	2 1/2"	1 1/4"	4"	2 1/4"	7/8"	5/8"	7/16"	13/16"	3/4"
6"	3"	1 1/2"	4"	2 1/4"	7/8"	3/4"	3/8"	15/16"	3/4"
6"	3"	1 1/2"	5 3/4"	3 3/4"	1"	7/8"	3/8"	15/16"	7/8"
6"	3"	1 1/2"	5 3/4"	3 3/4"	1"	7/8"	7/16"	15/16"	7/8"
6"	3"	1 1/2"	5 3/4"	3 3/4"	1"	7/8"	1/2"	15/16"	7/8"

NO FUSE PLATE REQUIRED ON PIPE COLUMN

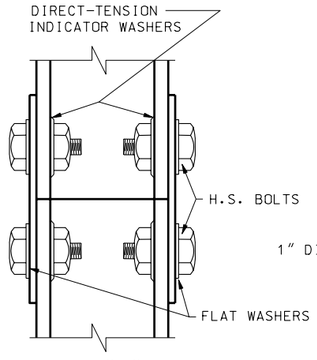


PLACE SIGN SUPPORT FOUNDATION SO IMPACTING VEHICLES DO NOT SNAG ON EITHER FOUNDATION OR ANY SUBSTANTIAL REMAINS OF SIGN SUPPORT. GRADE SURROUNDING TERRAIN TO PERMIT IMPACTING VEHICLES TO PASS OVER FOUNDATION AND PORTIONS OF SIGN SUPPORTS WHICH REMAIN IN THE GROUND OR ARE RIGIDLY ATTACHED TO THE FOUNDATION.

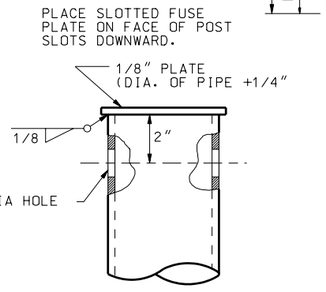
BREAKAWAY SUPPORT STUB HEIGHT MEASUREMENT

GENERAL NOTES:

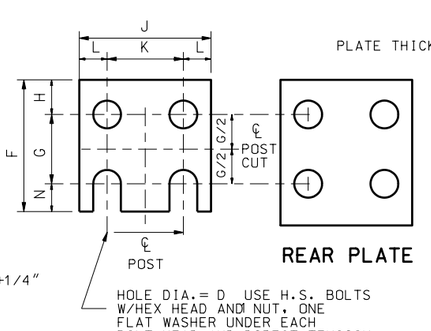
1. CONFORM TO THE LATEST EDITION OF AASHTO STANDARD SPECIFICATION FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
2. FABRICATE BASE, SLIP AND FUSE PLATES FROM STEEL MEETING THE REQUIREMENTS SPECIFIED FOR THE SIGN POST TO WHICH THEY ARE ATTACHED EXCEPT WHERE PIPE POST ARE USED. IN WHICH CASE CONFORM TO THE REQUIREMENTS OF ASTM A 36.
3. USE STRUCTURAL STEEL THAT IS STRUCTURAL CARBON STEEL CONFORMING TO THE FOLLOWING ASTM DESIGNATIONS: STANDARD PIPE 3"–8" DIA. ASTM A 53 GRADE B. W AND S SHAPES ASTM A 36.
4. USE BOLTS, NUTS AND WASHERS CONFORMING TO ASTM A 325 AND CADMIUM ELECTRO PLATING CONFORMING TO ASTM A 165 NS.
5. WELD TO THE REQUIREMENTS OF THE AASHTO STANDARD SPECIFICATION FOR WELDING OF STRUCTURAL STEEL HIGHWAY BRIDGES.
6. SAW CUTTING ALL PLATE CUTS IS PREFERRED. FLAME CUTTING WILL BE PERMITTED PROVIDED ALL EDGES ARE GROUND. METAL PROJECTING BEYOND THE PLATE FACE WILL NOT BE TOLERATED.
7. GALVANIZE ALL STRUCTURAL STEEL AFTER FABRICATION IN CONFORMANCE TO AASHTO M 111 (ASTM A 123).
8. TIGHTEN HIGH STRENGTH BOLTS IN THE BASE CONNECTION ONLY TO THE TORQUE LIMITS SHOWN IN THE TABLE. DO NOT OVER TIGHTEN.
9. TIGHTEN ALL HIGH STRENGTH FRICTION FUSE BOLTS IN THE SHOP. USE DIRECT-TENSION INDICATOR WASHERS TO TIGHTEN THE BOLTS. SEE STANDARD SPECIFICATION SECTION 05120.
10. MOUNT ALL SIGNS DESIGNATED FOR MOUNTING WITH BREAKAWAY BASES ON UNDIVIDED HIGHWAYS OR ON DIVIDED HIGHWAYS OF LESS THAN FOUR LANES WITH BREAKAWAYS PLATES PARALLEL TO THE BASE PLATES.



DETAIL "A" HINGE

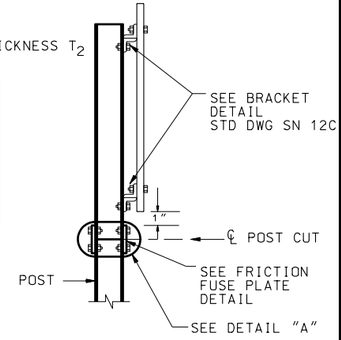


TOP OF PIPE DETAIL



REAR PLATE

FACE PLATE



SIDE VIEW

FUSE PLATE DETAIL
(SEE TABLE FOR DIMENSIONS)

REVISIONS

NO.	DATE	APPR.	REMARKS

UTAH DEPARTMENT OF TRANSPORTATION
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION
SALT LAKE CITY, UTAH

RECOMMENDED FOR APPROVAL — DATE JAN.01.2005
CHAIRMAN STANDARDS COMMITTEE
APPROVED — DATE JAN.01.2005
DEPUTY DIRECTOR

GROUND MOUNTED SIGN INSTALLATION DETAILS

STANDARD DRAWING TITLE

STD DWG
SN 12B

DGN File: N:\Esd\Standard Drawings\Imperial\2005Approved\Signs (SN)\sn12b.dgn
15-DEC-2004